

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|------------------------------|---|---------------------------|
| In re Application of: |) | |
| MARK R. MOORE et al. |) | Group Art Unit 3661 |
| |) | |
| Serial No.: not yet assigned |) | |
| |) | Examiner Ronnie M. Mancho |
| Filed: herewith |) | |
| |) | |
| For: TRACTOR WITH |) | Attorney Docket 1-22847 |
| MONITORING SYSTEM |) | |

Assistant Commissioner for Patents
Washington, D. C. 20231

PRELIMINARY AMENDMENT

Honorable Sir:

Prior to an examination on the merits, please amend the above-identified application as follows:

IN THE SPECIFICATION

| | |
|-----------------|--|
| Page 1, Line 1 | insert the new heading --TITLE--. |
| Page 1, Line 2 | insert the new heading --BACKGROUND OF THE INVENTION--. |
| Page 1, Line 11 | insert the new heading --SUMMARY OF THE INVENTION--. |
| Page 1, Line 15 | insert the new heading --BRIEF DESCRIPTION OF THE DRAWINGS--. |
| Page 2, Line 1 | insert the new heading --DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT--. |

IN THE CLAIMS

Page 8, Line 1 change "CLAIMS" to --What is claimed is:--.

Cancel Claims 1 through 10 and add new Claims 11 through 25 as follows:

11. An apparatus for mapping the performance of an agricultural tractor during operation in an agricultural field comprising:

 a sensor that generates a signal that is representative of an operating characteristic of the agricultural tractor; and

 a controller that is responsive to said signal from said sensor and that generates a map of the performance of the agricultural tractor during operation in the agricultural field.

12. The apparatus defined in Claim 11 wherein said sensor is an engine sensor that generates a signal that is representative of an operating characteristic of an engine provided on the agricultural tractor.

13. The apparatus defined in Claim 12 wherein said engine sensor is a sensor that generates a signal that is representative of the speed of the engine.

14. The apparatus defined in Claim 12 wherein said engine sensor is a sensor that generates a signal that is representative of the amount of fuel supplied to the engine.

15. The apparatus defined in Claim 11 wherein said sensor is a speed sensor that generates a signal that is representative of the speed of the tractor.

16. The apparatus defined in Claim 11 wherein said sensor is a power take off sensor that generates a signal that is representative of an operating characteristic of a power take off provided on the agricultural tractor.

17. The apparatus defined in Claim 16 wherein said power take off sensor is a sensor that generates a signal that is representative of the speed of the power take off.

18. The apparatus defined in Claim 11 wherein said sensor is a linkage sensor that generates a signal that is representative of an operating characteristic of a three point linkage provided on the agricultural tractor.

19. The apparatus defined in Claim 18 wherein said linkage sensor is a sensor that generates a signal that is representative of the draft force of the three point linkage.

20. The apparatus defined in Claim 18 wherein said linkage sensor is a sensor that generates a signal that is representative of the position of the three point linkage.

21. The apparatus defined in Claim 11 wherein said sensor is a position sensor that generates a signal that is representative of the position of the tractor in the agricultural field.

22. The apparatus defined in Claim 21 wherein said position sensor is a global satellite navigation system.

23. The apparatus defined in Claim 11 further including an actual speed sensor that generates a signal that is representative of the actual speed of the agricultural tractor over ground, said controller being responsive to said signals from said sensor and said actual speed sensor and generating the map of the performance of the agricultural tractor during operation in the agricultural field.

24. The apparatus defined in Claim 11 further including a theoretical speed sensor that generates a signal that is representative of the theoretical speed of the

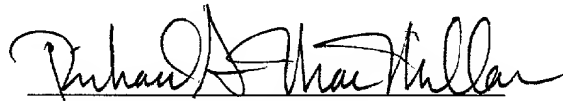
agricultural tractor over ground if no wheel slip is occurring, said controller being responsive to said signals from said sensor and said theoretical speed sensor and generating the map of the performance of the agricultural tractor during operation in the agricultural field.

25. The apparatus defined in Claim 11 further including a manual input device that generates a signal that is representative of a parameter, said controller being responsive to said signals from said sensor and said parameter sensor for generating the map of the performance of the agricultural tractor during operation in the agricultural field.

REMARKS

In view of the amendments, it is believed that the application is in condition for allowance. Accordingly, an early Notice Of Allowance is respectfully requested.

Respectfully submitted,



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